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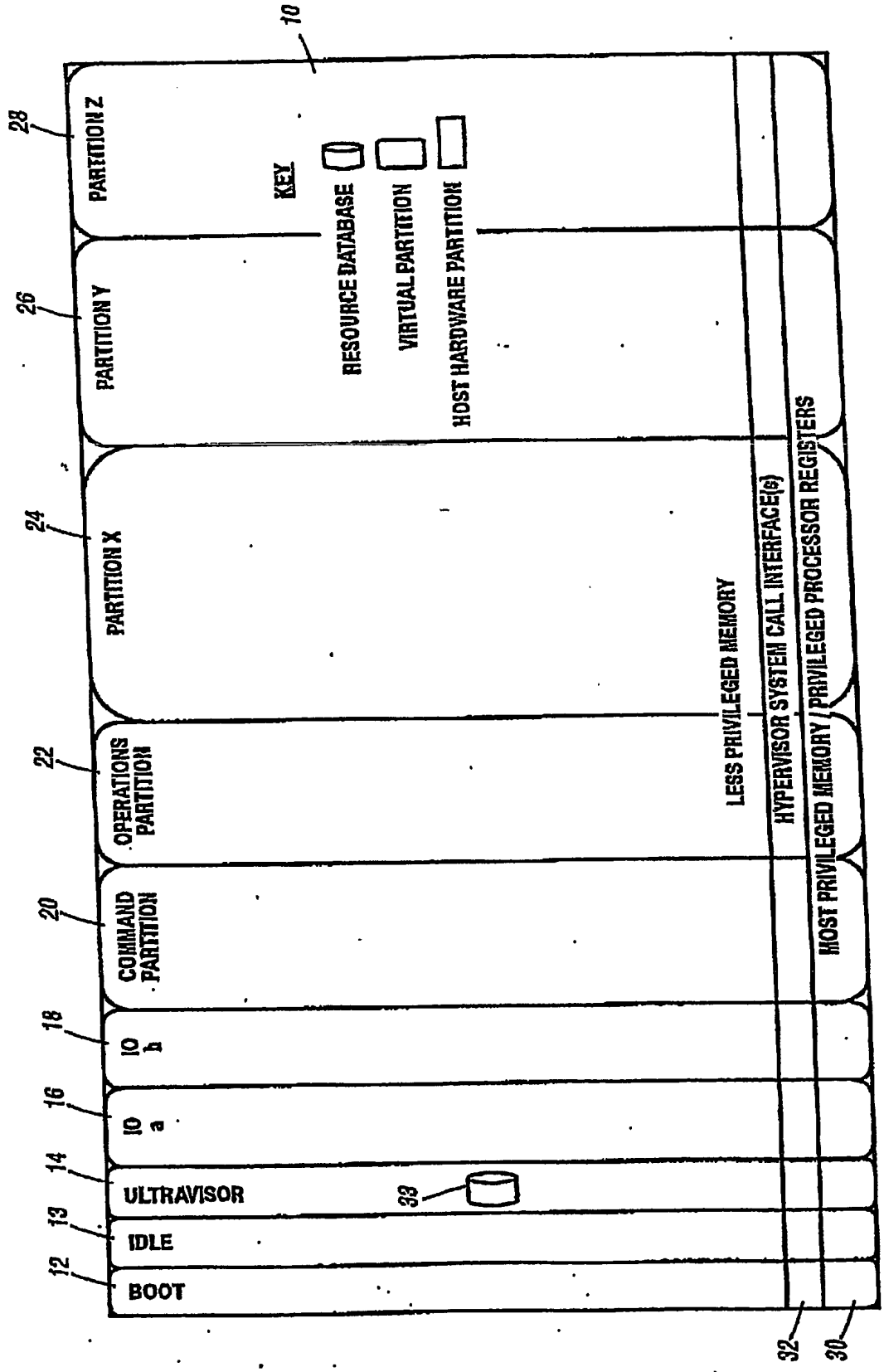
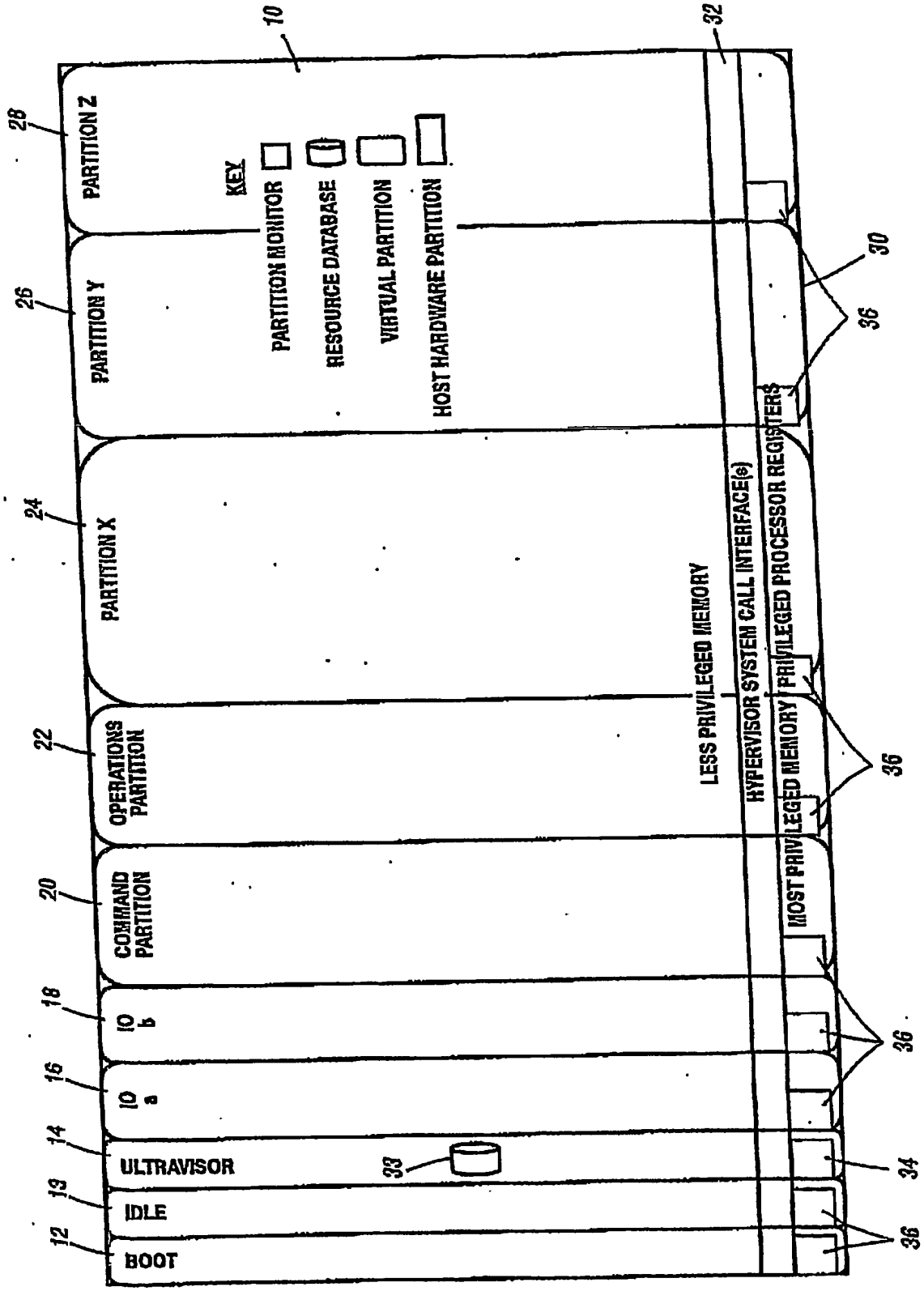


Partitioned Host System

Figure 1

BEST AVAILABLE COPY



Partition Monitors

Figure 2

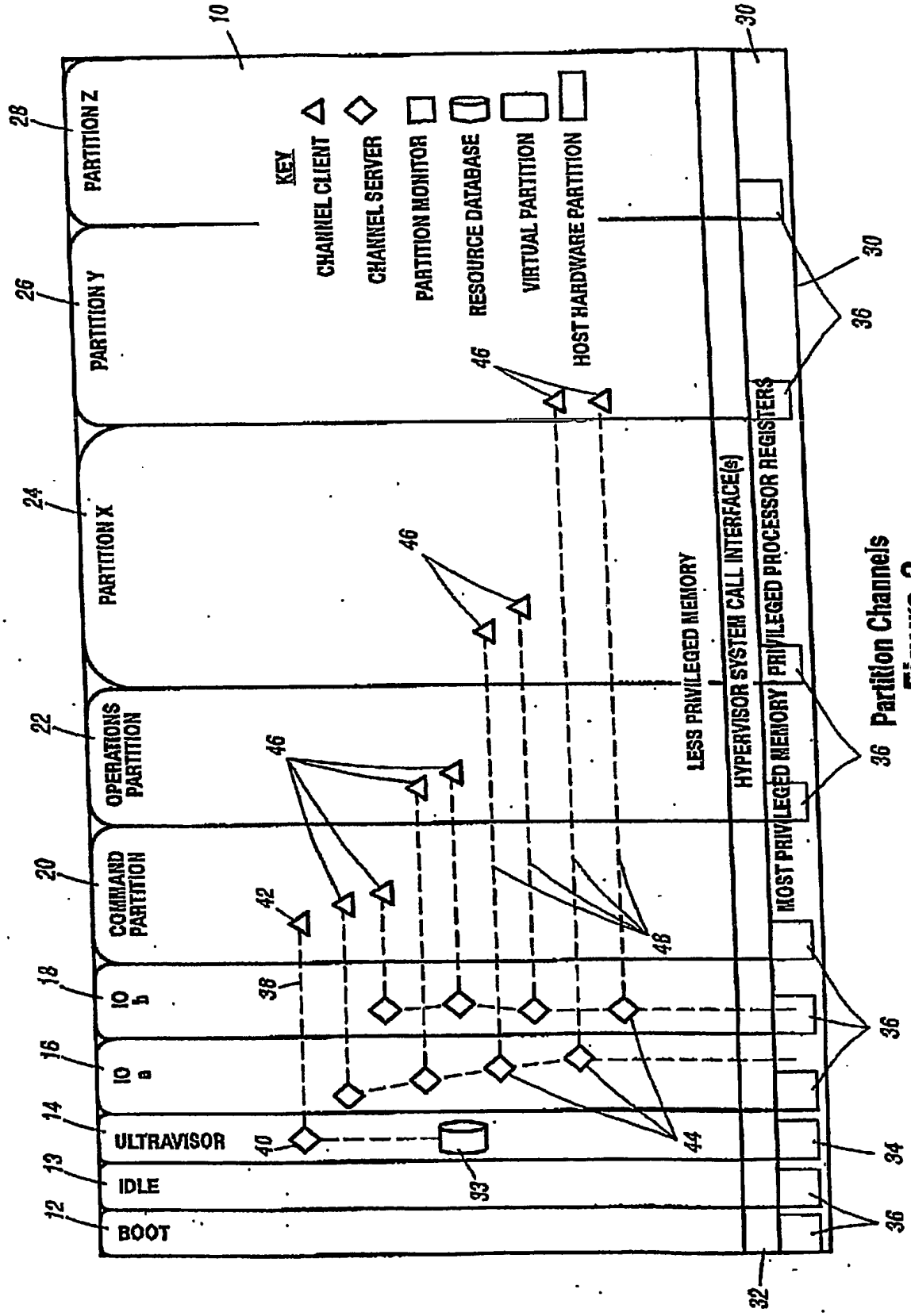
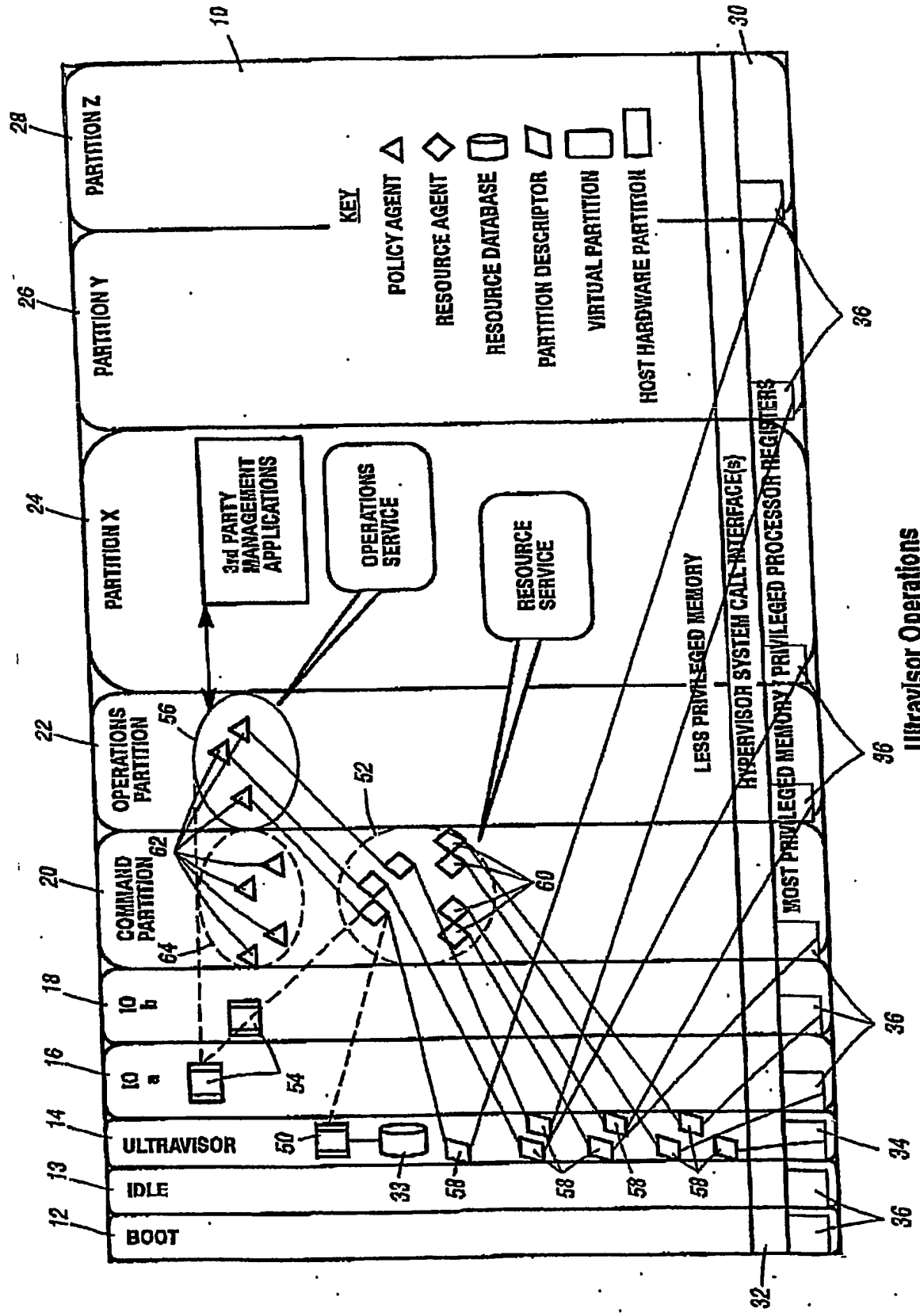
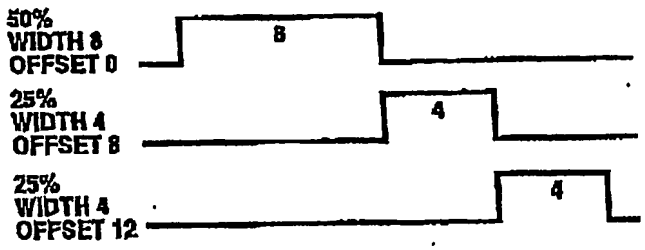


Figure 3 Partition Channels



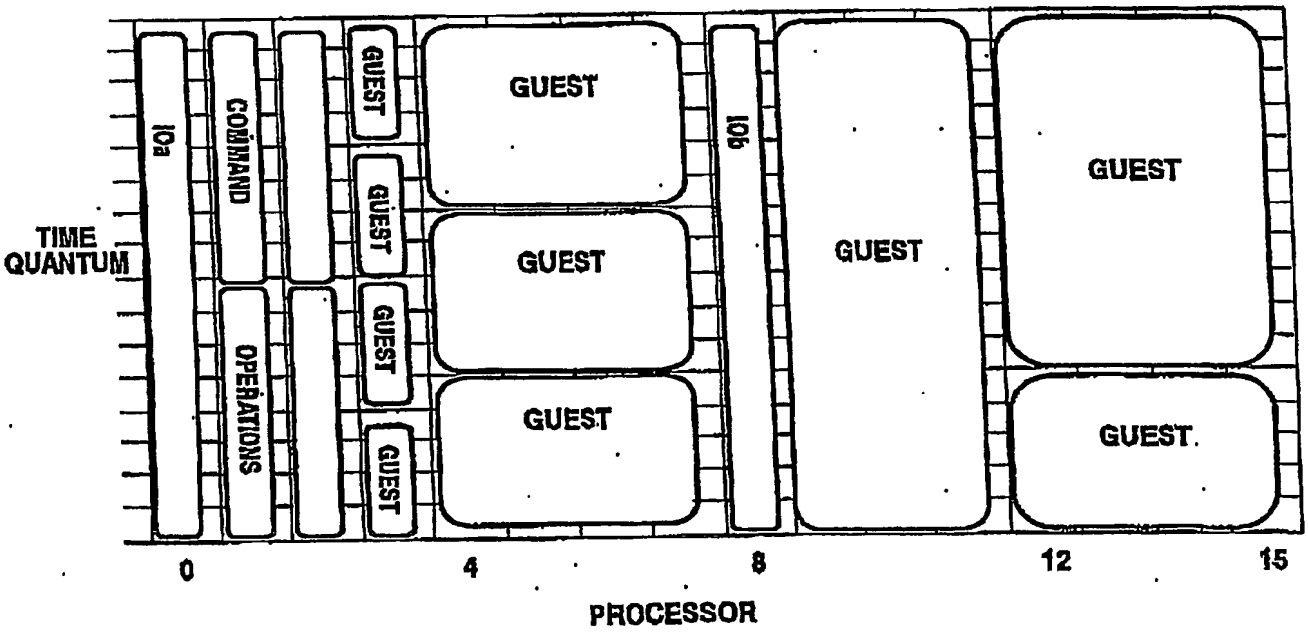
Ultravisor Operations

Figure 4



Processor Sharing

Figure 5



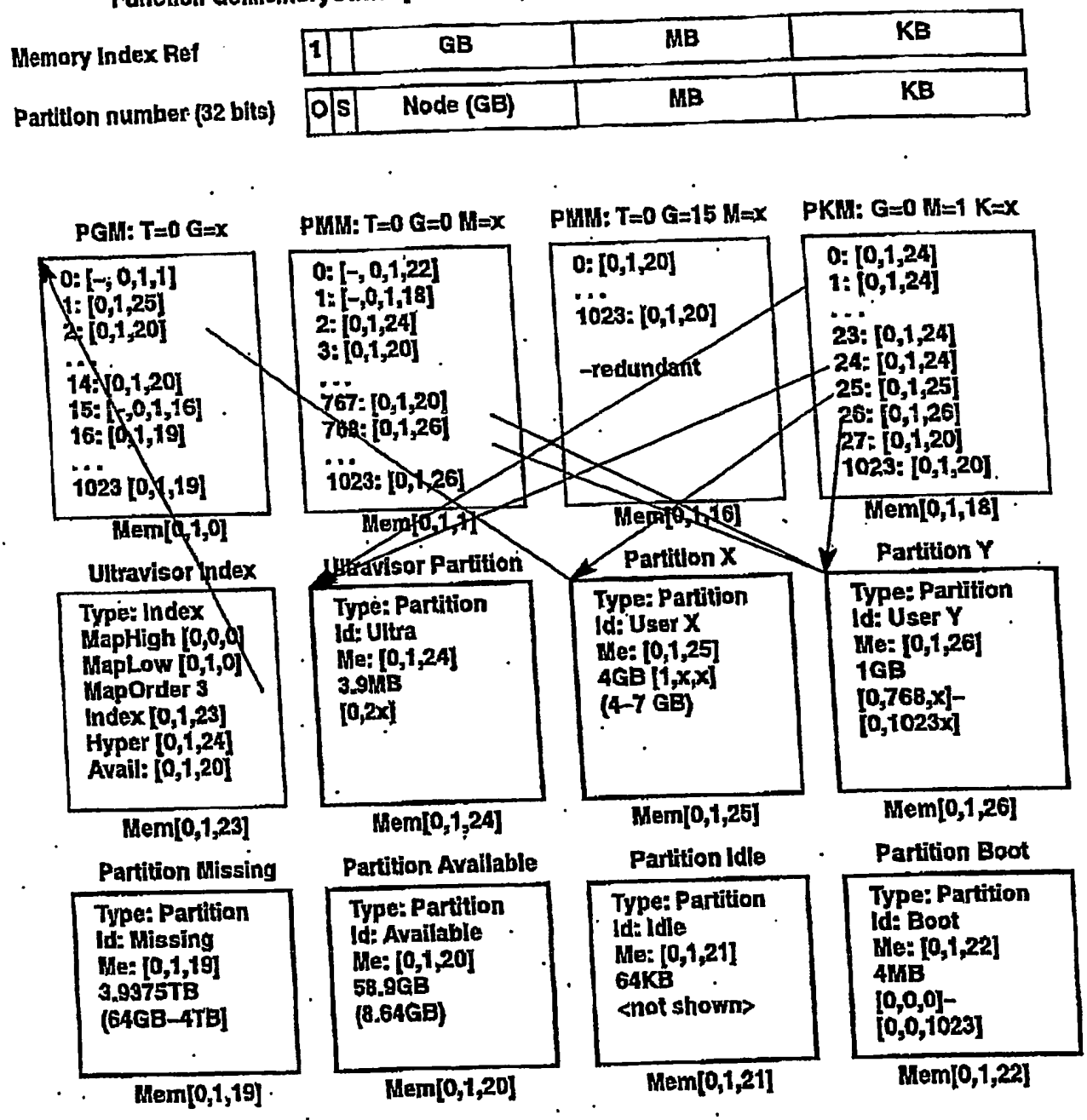
Processor Schedule

Figure 6

$(2^{10})^n$	SI Prefix	SI Name	Page Table	Pageentry	IA32/EM32T
1	K	kilo	PKM	PKE	PT/PTE
2	M	mega	PMM	PME	PD/PDE
3	G	giga	PGM	PGE	PDP
4	T	tera	PTM	PTE	PML4
5	P	peta	PPM	PPE	
6	E	Exa	PEM	PEE	
7	Z	zetta	PZM	PZE	
8	Y	yotta	PYM	PYE	

SI Prefixes for Page Table Hierarchy

Figure 7



Partition Memory Map

Figure 8

PCT/US04/38867 .06052005

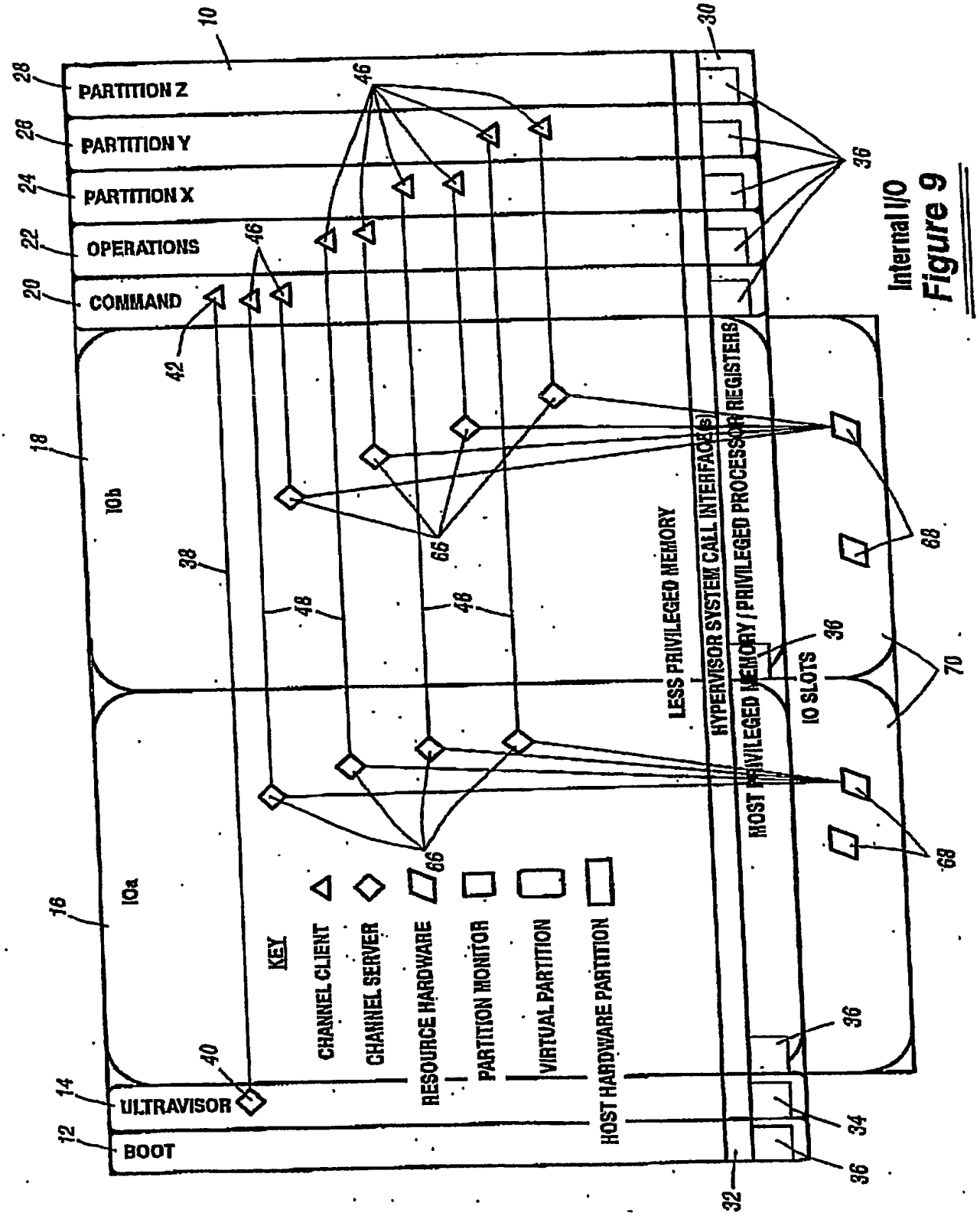


Figure 9

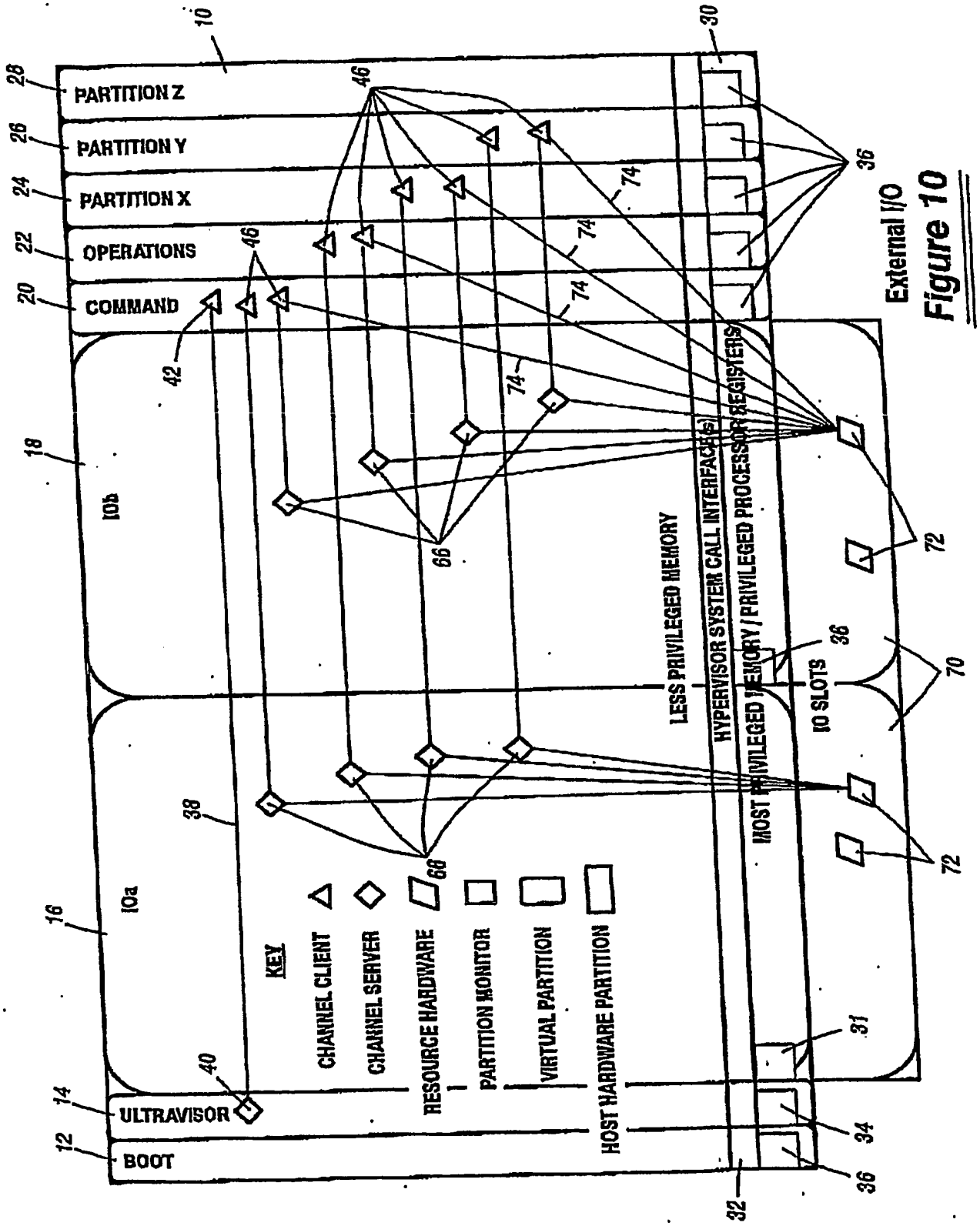
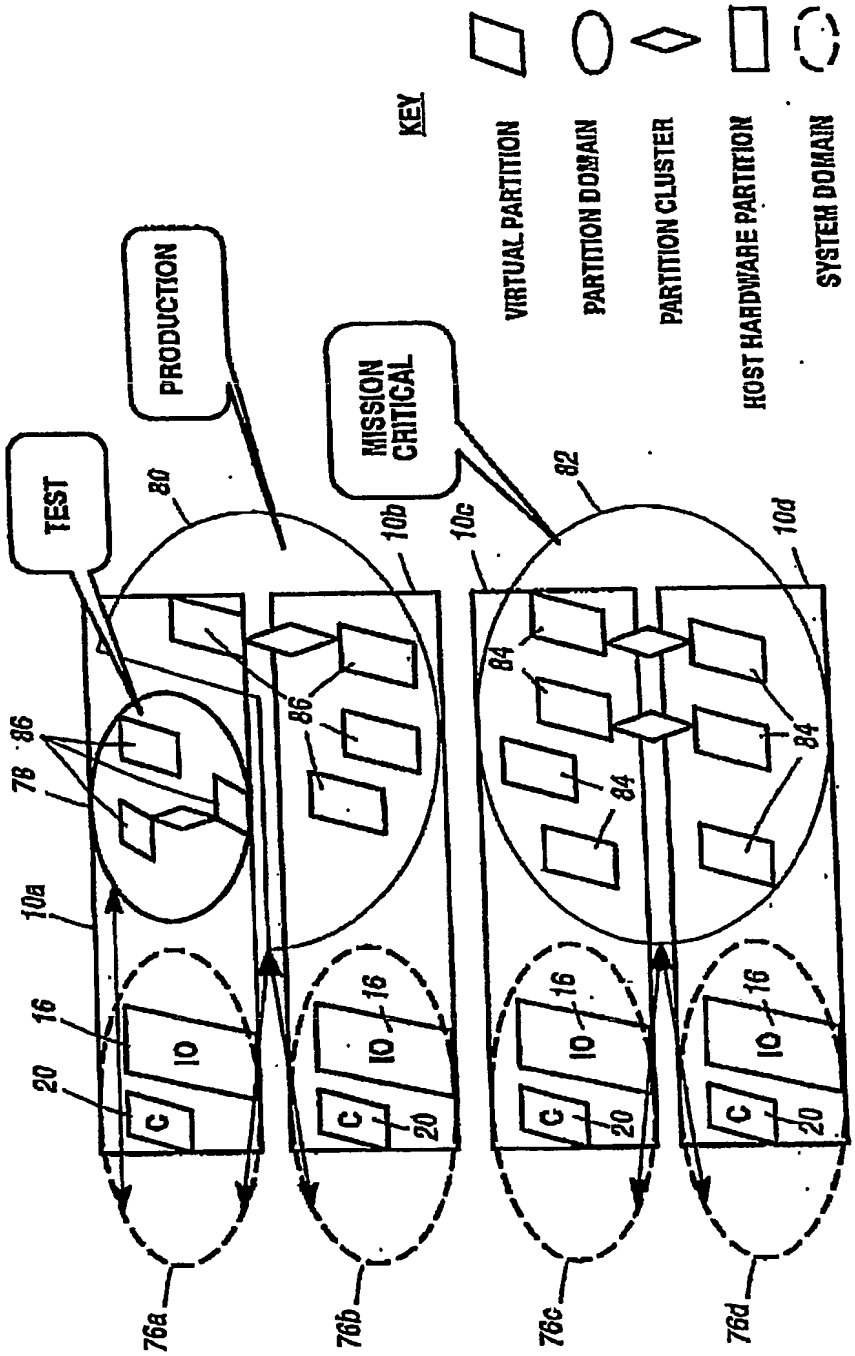
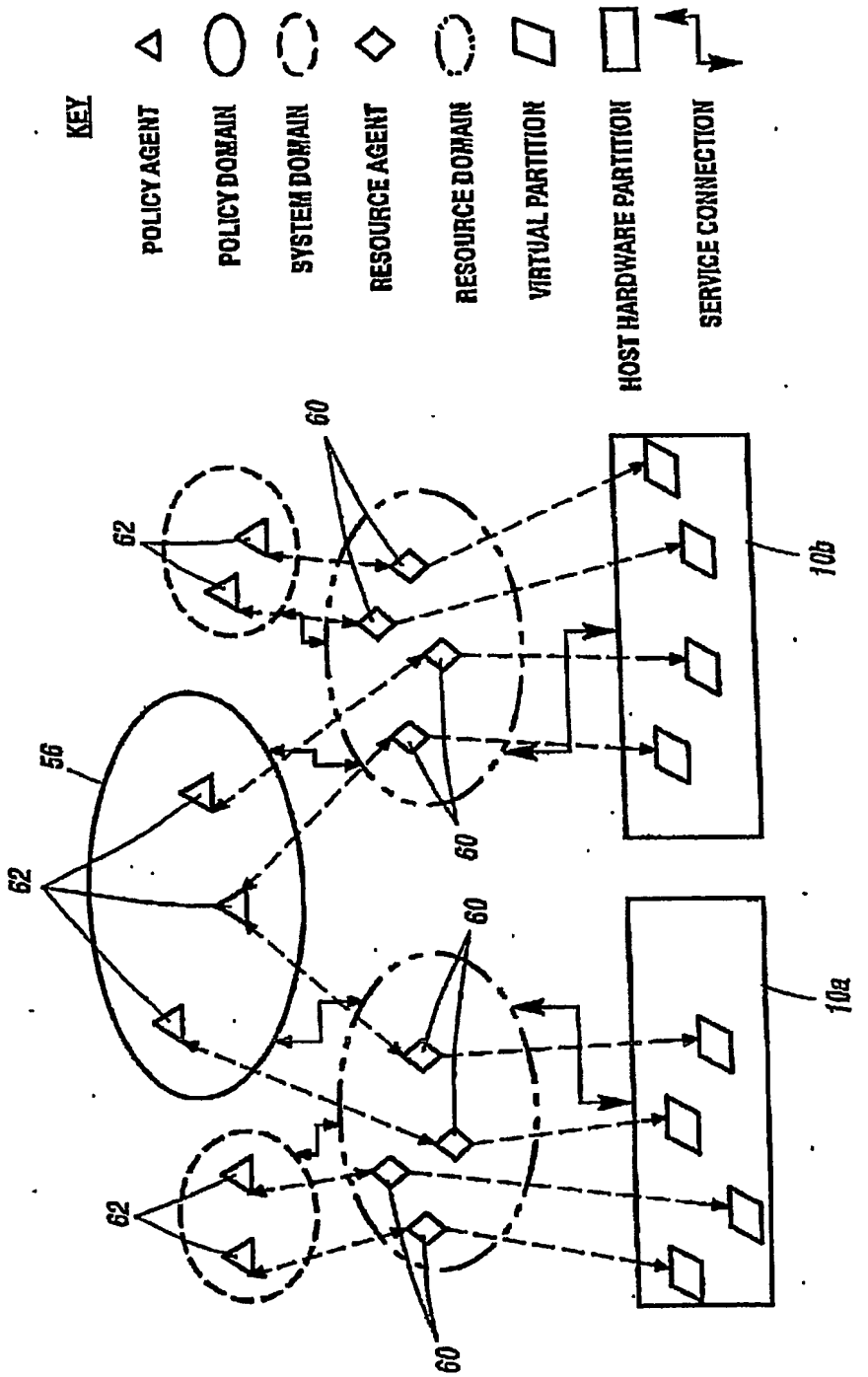

10
30
28
PARTITION Z
26
PARTITION Y
24
PARTITION X
22
OPERATIONS
20
COMMAND
46
42
74
66
18
IOb
72
LESS PRIVILEGED MEMORY
HYPERVISOR SYSTEM CALL INTERFACE(S)
MOST PRIVILEGED MEMORY / PRIVILEGED PROCESSOR REGISTERS
36
IO SLOTS
70
38
68
16
IOa
KEY
CHANNEL CLIENT
CHANNEL SERVER
RESOURCE HARDWARE
PARTITION MONITOR
VIRTUAL PARTITION
HOST HARDWARE PARTITION
31
40
14
ULTRAVISOR
12
BOOT
34
32
External I/O

Figure 10



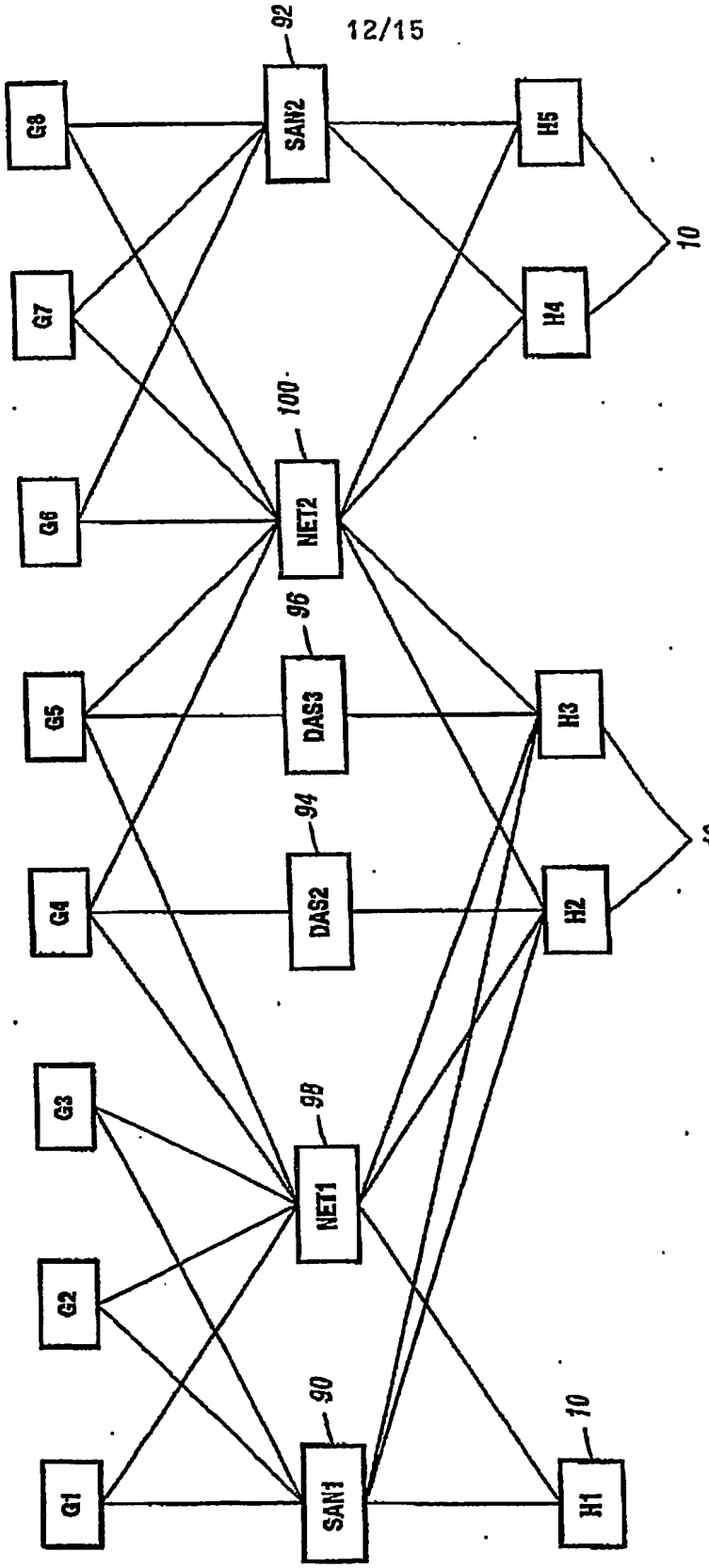
Ultravisor Domains

Figure 11



Ultravisor Partition Agents

Figure 12



Virtual Data Center Zones

Figure 13

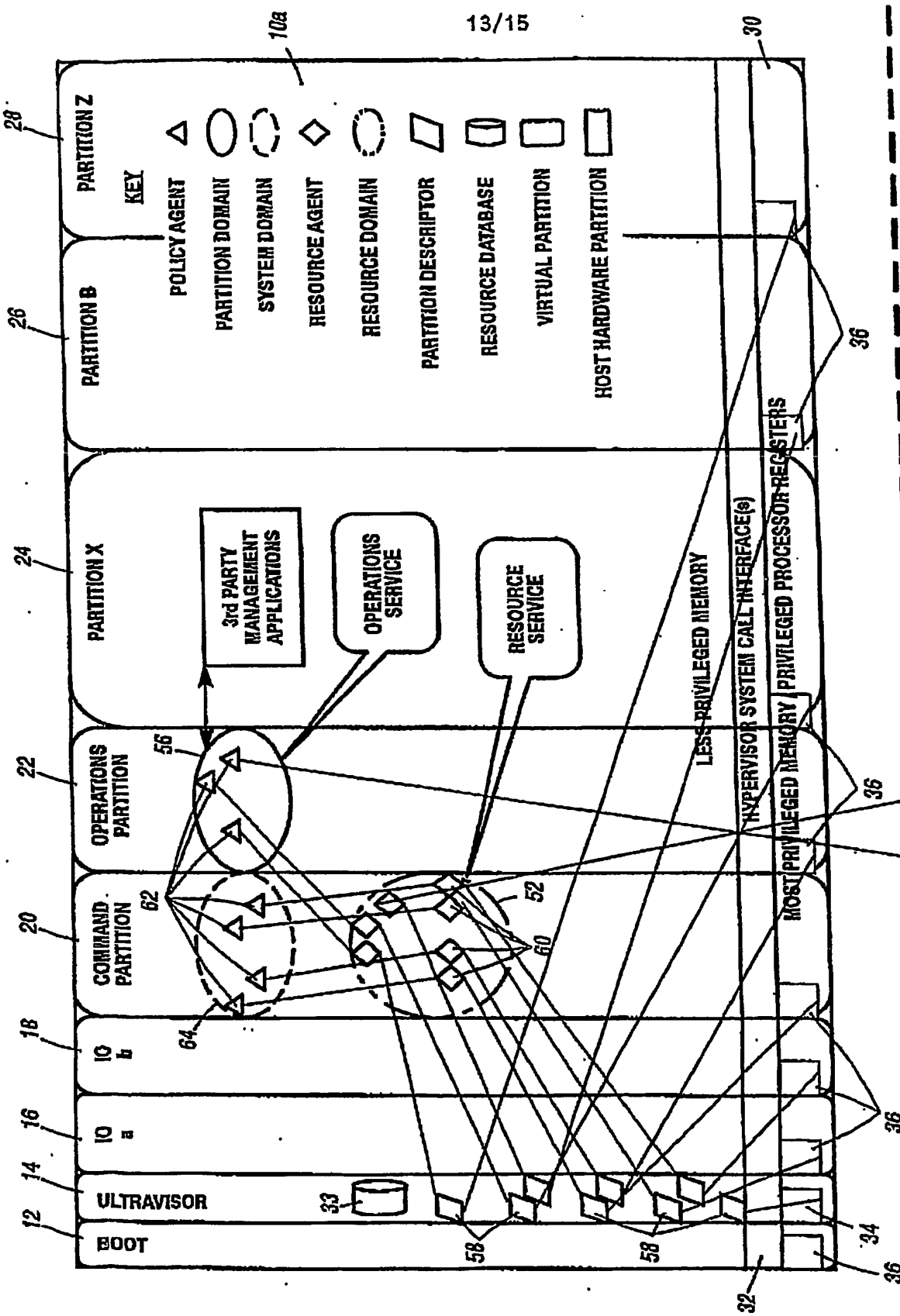
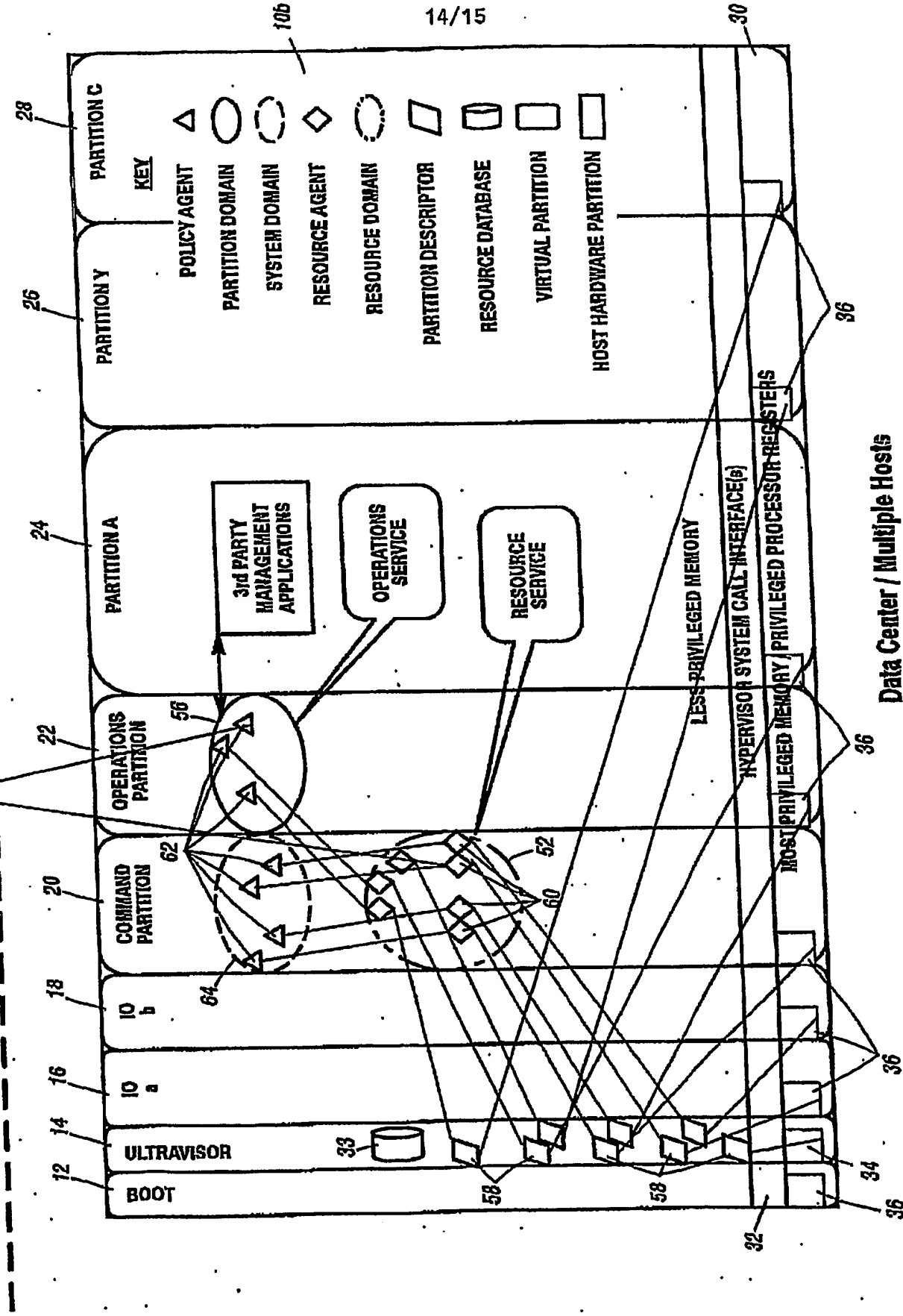


Figure 14A

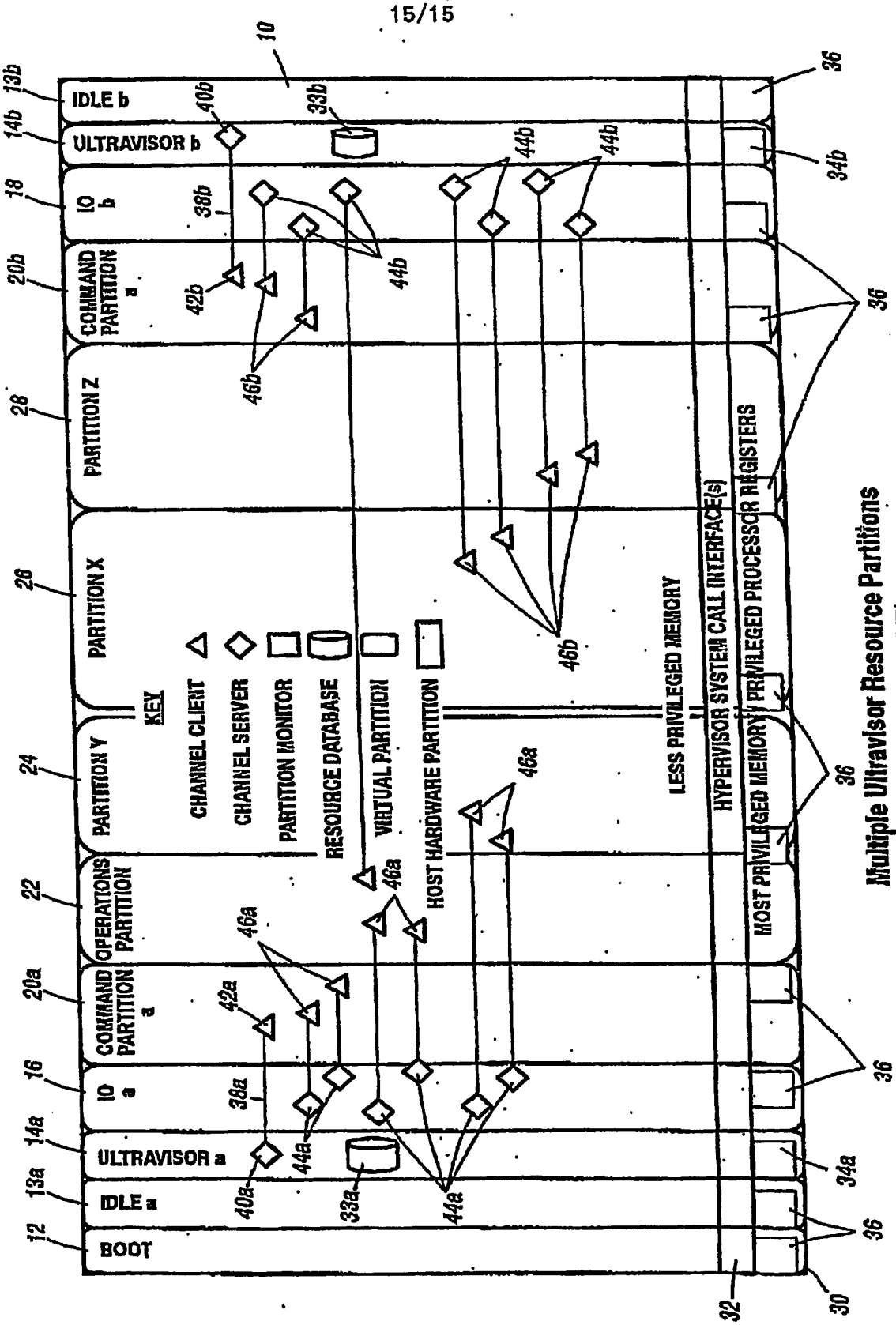
Figure 14

Fig. 14A	Fig. 14B



Data Center / Multiple Hosts

Figure 14B



Multiple Ultravisor Resource Partitions

Figure 15

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